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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,270	. 09/26/2003	Karen Swider-Lyons	NC 84,631	8819
26384	84 7590 11/13/2006		EXAMINER	
NAVAL RESEARCH LABORATORY ASSOCIATE COUNSEL (PATENTS) CODE 1008.2 4555 OVERLOOK AVENUE, S.W. WASHINGTON, DC 20375-5320			WEINER, LAURA S	
			ART UNIT	PAPER NUMBER
			1745	
WASHINGIC	N, DC 203/3-5320		DATE MAILED: 11/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/672,270	SWIDER-LYONS ET AL.			
		Examiner	Art Unit			
		Laura S. Weiner	1745			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHI WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is not of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
 Responsive to communication(s) filed on <u>04 October 2006</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	vn from consideration. r election requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>9-03</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Po 6) Other:	nte			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of an elected species in the reply filed on 10-4-06 is acknowledged. After further consideration, all the claims were examined.

Claim Rejections - 35 USC § 112

2. Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected because it is unclear what is meant by "platinum group metals or alloys". Is M1 platinum or not platinum? It is also unclear what is meant by the dash between M1 and M2 in "M1-M2PxOy". Also, it is unclear if "x" and/or "y" allow for 0. It is unclear what is meant by "wherein z is a nonnegative number" in regard to saying "is a positive number". It is also unclear if z can be 0.

Claim 3 is rejected because it is unclear how the claim further limits claim 1 from which the claim depends from. Claim 1 already claims that M1 is platinum.

Claim 5 is rejected because M1 cannot be palladium because claim 1 from which the claim depends from claims M1 to be platinum metal or alloy.

Claim 6 is rejected because it is unclear what is meant by "platinum group alloys".

Claim 10 is rejected because it is unclear what is the boundaries for x, y and z because of the use of "about".

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Claim 11 is rejected because it is unclear how the claim further limits claim 1 from which the claim depends from. Claim 11 claims a phosphate catalyst doped with a transition metal but claim 1 from which the claim depends from already claims this in the equation M1M2PxOy where M2 is a transition metal.

Claims 14-16 are rejected because it is unclear if the phosphate catalyst is formed on the conductive support or not. If it was a conductive material than it could be combined with. This claim is vague and indefinite.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1-4, 6-16, 18-20 are rejected under 35 U.S.C. 102(a) as being anticipated by Swider-Lyons, et al. "Low-platinum hydrous metal oxides for PEMFC cathodes'.

Swider-Lyons et al. teaches Pt-FePOx catalysts in a fuel cell. Also, teaches that Pt-NbPO4-VC can be used. Swider-Lyons et al. teaches 1.7% Pt-FePOx – 80% VC cathode. Swider-Lyons et al. teaches that FePOx can be doped with Mo.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gadgil et al. "Study fFePO4 Catalyst" teaches FePO4 catalyst

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are known with or without Pd impregnation. Gadgil et al. teaches the behavior of Pd/FePO4 catalyst.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Laura & Weiner Primary Examiner

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